## **Amendments to the Claims:**

The following claims will replace all prior versions of the claims in this application (in the unlikely event that no claims follow herein, the previously pending claims will remain):

- (Currently Amended) A wavelength stabilization module having a laser diode which irradiates a laser beam at the front side and the rear side thereof, the module comprising:
  - a collimator for paralleling the laser beam irradiated at the rear side;
- a beam splitter for splitting the laser beam passing through the collimator into the two directional laser beams;
  - a light-receiving element for receiving one of the split laser beams;
  - a filter for transmitting a specific wavelength of the an other of the split laser beams;
- a light-receiving element array for receiving the laser beam passing through the filter; and
- a controller for controlling the output wavelength of the laser diode using the signals output from the light-receiving element and the light-receiving element array,

wherein the filter and the light-receiving element array are tilted at a predetermined angle with respect to the laser beam and lock the wavelength using an incident angle dependency of the laser beam passing through the filter, and

the light-receiving element array comprises a plurality of elements that detect different wavelengths.

- 2. (Original) The wavelength stabilization module according to claim 1, wherein the filter and the light-receiving element array are fixed on a sub-mount and are blocked.
- 3. (Original) The wavelength stabilization module according to claim 1, further comprising a TEC (Thermo-Electric Cooler), wherein the TEC comprises a thermistor for detecting the temperature and a TEC driver for receiving and maintaining uniform the temperature detected in the thermistor.
- 4. (Original) The wavelength stabilization module according to claim 1, wherein the predetermined angle is in the range of 2° to 10°.

- 5. (Original) The wavelength stabilization module according to claim 1, wherein the beam splitter splits the laser beam passing through the collimator so that some portion thereof is directed to the light-receiving element and some portion thereof is directed to the filter.
- 6. (Original) The wavelength stabilization module according to claim 1, wherein the light-receiving element array comprises four light-receiving elements, and the light-receiving elements are positioned at certain intervals.
- 7. (Original) The wavelength stabilization module according to claim 1, wherein the controller includes an operation amplifier and a laser diode driver.
- 8. (Currently Amended) A method of manufacturing the <u>a</u> wavelength stabilization module, <u>the method</u> comprising the steps of:

assembling a laser diode, a collimator, a beam splitter, and a light-receiving element on a TEC:

mounting the TEC on a butterfly package;

applying an input signal to the laser diode to operate; and

mounting a sub-mount mounted with the filter and the <u>a</u> light-receiving element array at a predetermined angle and a predetermined distance, while monitoring the wavelength of the beam of the laser diode, under the temperature controlled by the TEC,

wherein the light-receiving element array comprises a plurality of elements that detect different wavelengths.

- 9. (Original) The method according to claim 8, wherein the sub-mount mounted with the filter and the light-receiving element array use a silicon substrate and are manufactured with a micro-machining process.
- 10. (Original) The method according to claim 9, wherein a pattern or a trench is formed in the sub-mount and the filter and the light-receiving element array are mounted therein.